



Material Safety Data Sheet

1. Identification of Substances/Preparation and of the Company/undertaking.

- **Product details**
- **Trade name: Methyl Iso Butyl Ketone**
- **Manufacturer/Supplier:**
Jay Overseas Pvt.Ltd.
402, Shopper Plaza-IV,
Opp.Lal Bunglow,
C.G.Road,Navrangpura,
Ahmedabad-380 009
Ph:+91 79-66622278 to 92 Fax:+91 79-66622280 /90
E-Mail Id: info@jayoverseas.com
- **Further information obtainable from: Product safety department.**

2. Composition/Information on ingredients.

- **Chemical characterization:**
- **CAS No. Description**
108-10-1 4-methylpentan-2-one
- **Identification number(s)**
- **EINECS Number: 203-550-1**
- **EU Number: 606-004-00-4**

3. Hazards Identification.

- **Hazard description:**



Xn Harmful

F Highly flammable

- **Information concerning particular hazards for human and environment:**

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

R 11 Highly flammable.

R 20 Harmful by inhalation.

R 36/37 Irritating to eyes and respiratory system.

R 66 Repeated exposure may cause skin dryness or cracking.

4. First Aid Measures.

- **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:** Generally the product does not irritate the skin.

- **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:** If symptoms persist consult doctor.

5. Fire-Fighting Measures.

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** Mouth respiratory protective device.

6. Accident Release Measures.

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

7. Handling & Storage.

- **Handling:**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

8. Exposure Control/Personal Protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**
108-10-1 4-methylpentan-2-one

PEL (USA)-----	410 mg/m ³ , 100 ppm
REL (USA)-----	Short-term value: 300 mg/m ³ , 75 ppm Long-term value: 205 mg/m ³ , 50 ppm
TLV (USA)-----	Short-term value: 307 mg/m ³ , 75 ppm Long-term value: 205 mg/m ³ , 50 ppm BEI
TLV (EU)-----	Short-term value: 208 mg/m ³ , 50 ppm Long-term value: 83 mg/m ³ , 20 ppm
WEL (Great Britain) -----	Short-term value: 416 mg/m ³ , 100 ppm Long-term value: 208 mg/m ³ , 50 ppm

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
- **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the

chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and

varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

9. Physical and Chemical Properties.

· **General Information**

Form: Fluid

Colour: Colourless

Odour: Characteristic

· **Change in condition**

Melting point/Melting range: -83.5°C

Boiling point/Boiling range: 114-117°C

· **Flash point:** 14°C

· **Ignition temperature:** 460°C

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:**

Lower: 1.7 Vol %

Upper: 9 Vol %

· **Vapour pressure at 20°C:** 8 hPa

· **Density at 20°C:** 0.8008 g/cm³

· **Solubility in / Miscibility with**

water at 20°C: 19 g/l

· **Viscosity:**

Dynamic at 20°C: 0.59 mPas

10. Stability and Reactivity. · **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Dangerous reactions** No dangerous reactions known.

· **Dangerous decomposition products:** No dangerous decomposition products known.

11. Toxicological Information.

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

Oral----- LD50----- 2080 mg/kg (rat)

Dermal----- LD50----- 16000 mg/kg (rab)

Inhalative----- LC50/4 h----- 8.3-16.6 mg/l (rat)

· **Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** Irritating effect.

· **Sensitization:** No sensitizing effects known.

12. Ecological Information.

· **General notes:**

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. Disposal Consideration.

· **Product:**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

14. Transport Information.

· **Land transport ADR/RID (cross-border)**



· **ADR/RID class:** 3 Flammable liquids.

· **Danger code (Kemler):** 33

· **UN-Number:** 1245

· **Packaging group:** II

· **Hazard label:** 3

· **Description of goods:** 1245 METHYL ISOBUTYL KETONE

· **Maritime transport IMDG:**



· **IMDG Class:** 3

· **UN Number:** 1245

· **Label** 3

· **Packaging group:** II

· **EMS Number:** F-E,S-D

· **Proper shipping name:** METHYL ISOBUTYL KETONE

· **Air transport ICAO-TI and IATA-DGR:**



· **ICAO/IATA Class:** 3

· **UN/ID Number:** 1245

· **Label** 3

· **Packaging group:** II

· **Proper shipping name:** METHYL ISOBUTYL KETONE

15. Regularity Information.

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**

Xn Harmful

F Highly flammable

· Risk phrases:

11 Highly flammable.

20 Harmful by inhalation.

36/37 Irritating to eyes and respiratory system.

66 Repeated exposure may cause skin dryness or cracking.

· Safety phrases:

2 Keep out of the reach of children.

9 Keep container in a well-ventilated place.

16 Keep away from sources of ignition - No smoking.

29 Do not empty into drains.

16. Other Information.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.